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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/721,283

11/26/2003

Hironori Hosoda

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01/24/2007

WHITHAM, CURTIS & CHRISTOFFERSON & COOK, P.C.

11491 SUNSET HILLS ROAD

SUITE 340

RESTON, VA 20190

EXAMINER

DOAN, KIET M

ART UNIT

PAPER NUMBER

2617

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

01/24/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/721,283	HOSODA ET AL.	
	Examiner	Art Unit	
	Kiet Doan	2617	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on 26 November 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 26 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>11/26/03</u> .  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

**Claims 5, 6, 7** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Consider claims **5, 6, 7** the word "information **about**" renders the claim indefinite because the word "**about**" does not positively identify the claimed limitation.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 1-12** are rejected under 35 U.S.C. 103(a) as being unpatentable over Gwon (Pub. No. 2002/0131386) and in view of Harrison et al. (5,796,727).

Consider **claims 1, 12**. Gwon teaches a wireless LAN system for predicting movement destination of a child station, which includes the child station and parent stations (Abstract), wherein each parent station comprises:

a wireless communication section for conducting communication with the child station (Paragraphs [0043-0044] Fig.1, Illustrate BST as wireless communication contain BST as read on parent station and mobile nodes as read on child station);

a table control section for acquiring a table in which MAC address of each movement destination parent station has been registered, when handover of the child station put under QoS communication is detected through the wireless communication section (Paragraphs [0056-0058]). Gwon teaches the limitation of claims as discuss **but silent on**

a band reserving request signal transmitting section for sending a transmission instruction of the band reserving request frame to the movement destination parent station; and

a LAN communication section for receiving the transmission instruction and transmitting the band reserving request frame to the movement destination parent station via LAN.

In an analogous art, Harrison teaches "Wide-area wireless LAN access". Further, **Harrison teaches** a band reserving request signal transmitting section for sending a transmission instruction of the band reserving request frame to the movement destination parent station; and

a LAN communication section for receiving the transmission instruction and transmitting the band reserving request frame to the movement destination parent station via LAN (Abstract, C4, L15-55, C10, L25-60, C11, L15-45).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Gwon and Harrison system, such that wireless LAN system for predicting movement destination of a child station, which includes the child station and parent stations and table control section for acquiring a

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table in which MAC address and LAN communication section for receiving the transmission instruction the band reserving request frame to provide means for mobile computer/device keeping data communication information when move from one location to a different location

Consider **claims 2**. Gwon teaches the wireless LAN system for predicting movement destination of the child station according to claim 1, wherein said parent station further comprises a signal strength measuring section for receiving and quantifying a beacon signal of at least one adjacent parent station of the parent stations, said table control section receives information of the qualified beacon signal and produces the table obtained by selecting and registering only the parent station which generates a signal with a constant value or more thereby handling the table as movement destination parent station position information, and when the child station is moved, the band reserving request frame is transmitted to the parent station which is predicted as the movement destination on the basis of the movement destination parent station position information which the table control section has (Paragraphs [0043-0046], [0056-0060]).

Consider **claims 3, 4**. Gwon teaches the wireless LAN system for predicting movement destination of a child according to claim 1, wherein said parent station further comprises a movement direction determining section for comparing MAC addresses of

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the parent stations existing in a movement source and the movement destination of the child station with each other, and for nullifying the transmission instruction of the reserving request to the band reserving request signal transmitting section, when the MAC addresses are the same (Abstract, Paragraphs [0058]).

Consider **claims 5, 6, 7**. Gwon teaches the wireless LAN system for predicting movement destination of a child according to claim 1, further comprising a local area route information server for providing route information in a local area to each parent station in LAN, wherein said parent station further comprises a route state determining section for storing the route information about a direction in which the child station can not be moved and nullifying a transmission instruction of the reserving request to the parent station positioned in the direction in which the child station can not be moved to the band reserving request signal transmitting section on the basis of the route information (Paragraphs [0040-0046], 0056-0058)).

Consider **claims 8-11**. Gwon teaches the wireless LAN system for predicting movement destination of a child according to claim 1, wherein said table control section counts the number of movement times of the child station for each aspect of movement source per movement destination from association setting information at a handover time to produce the table obtained by calculating movement destination ratios of the

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child station, and instructs to transmit the band reserving request frame to the parent station with the highest movement probability of the table (Paragraphs [0070-0077], [0095-0103]).

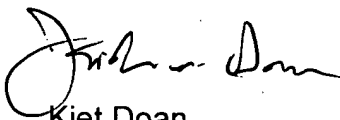
### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 571-272-7863.

The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Kiet Doan  
Patent Examiner

  
ERIKA A. GARY  
PRIMARY EXAMINER